

PHOSPHOR, ITS PREPARATION AND FLUORESCENT LAMP USING THE SAME

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Abstract of JP3287690

PURPOSE: To obtain a phosphor which is made of an oxide of a rare earth element, contains Eu as an activator and is improved, as compared with conventional phosphors, in overall powder luminance for excitation at a specific wavelength and light flux of a fluorescent lamp by incorporating specific amounts of In and B.

CONSTITUTION: In and B are added to a phosphor which is made of a rare earth element oxide (wherein the rare earth element is at least one member selected from Y, Gd, La and Lu) and contains Eu as an activator. The amount of In is 0.2mol% or less in terms of In_2O_3 and that of B is 0.001 to 1mol% in terms of B_2O_3 . (e.g. a compound represented by the formula).

17. $In_{1-x}B_xO_3$ (0 < x < 0.50115, 0,

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